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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,387	08/23/2001	Charles P. Norman	ST00015C1	2456
75	90 07/19/2006		EXAM	INER
THE ECLIPSE GROUP 10453 RAINTREE LANE			PHU, PHUONG M	
NORTHRIDGE, CA 91326			ART UNIT	PAPER NUMBER
	•		2611	
			DATE MAILED: 07/19/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			Y
	Application No.	Applicant(s)	
	09/938,387	NORMAN, CHARLE	S P.
Office Action Summary	Examiner	Art Unit	
	Phuong Phu	2611	
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet	with the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILII  - Extensions of time may be available under the provisions of 37 ( after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MC statute, cause the application to become	IICATION. a reply be timely filed  ONTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on	05 July 2006.		
	This action is non-final.		
3) Since this application is in condition for a		tters, prosecution as to the r	nerits is
closed in accordance with the practice ur			
Disposition of Claims			
4)⊠ Claim(s) <u>1-4</u> is/are pending in the applica	tion.		
4a) Of the above claim(s) is/are with	thdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1</u> is/are rejected.			
7) Claim(s) <u>2-4</u> is/are objected to.			
8) Claim(s) are subject to restriction a	and/or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the Exa	aminer.		
10) The drawing(s) filed on is/are: a)	] accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any objection t	o the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the c	orrection is required if the drawin	g(s) is objected to. See 37 CFR	1.121(d).
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attache	ed Office Action or form PTO	)-152.
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for fo</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docu</li> </ul>		§ 119(a)-(d) or (f).	
2. Certified copies of the priority docu		Application No	
3. Copies of the certified copies of the			tage
application from the International B	-		9
* See the attached detailed Office action for		t received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-94</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/5</li> </ul>	· —	(s)/Mail Date Informal Patent Application (PTO-1	(52)
Paper No(s)/Mail Date	6) Other:		<u></u>

Application/Control Number: 09/938,387

Art Unit: 2611

### **DETAILED ACTION**

This Office Action is responsive to the Amendment filed on 7/5/06.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Barnard (5,241,561), previously cited.
- -Regarding to claim 1, see figure 3, and col. 5, line 47 to col. 6, line 61, Barnard disclose a system comprising:

a first mixer (24, 26) for removing a carrier component of an input signal (outputted from element (21)) (referred to the limitation "the GPS signal") to form a carrier removed signal in such a way that the first mixer comprises device (26) as a low pass filter for passing only the lowest, difference frequency component of products of mixing (via device (24)) the input signal with a local oscillator signal (22), and suppressing or removing others of higher frequency (inherently including the carrier component of the input signal) (see col. 6, line 67 to col. 6, line 2), (and it is explained as follows. In Barnard, the input signal is data with bandwidth of 2 MHz and transmitted on carrier frequency 1575.42 MHz (see col. 1, line 34 to col. 2, line 3), (in another word, it can be said that the input signal is within 1575.42 MHz ± 2 MHz), and further, the local oscillator signal can be the same or close to that of the input signal (see col. 5, lines 62-64); therefore for the case that the local oscillator signal is equal the carrier frequency of

Art Unit: 2611

1575.42 MHz, since a difference frequency component ((1575.42 MHz ± 2 MHz)- 1575.42 MHz) of the products of mixing is less than 2 MHz, namely, much less than the carrier frequency of 1575.42 MHz, and the low pass filter (26) for passing only the lowest, difference frequency component of the products of mixing, the carrier component 1575.42 MHz of the input signal is, therefore, inherently suppressed or removed by the low pass filter (26));

a second mixer (34) for receiving the carrier-removed signal and a separate received frequency reference signal outputted from (32) and outputting a resultant signal while further suppressing any remained leakage of the carrier frequency component (see col. 6, lines 14-18);

a comb filter (36), coupled to the second mixer, for filtering the resultant signal and obtaining a first output comprising filter lines; and (see col. 6, lines 18-24); and

a frequency shifter (40, 42, 44) for shifting the filter lines in the first output to produce an output signal outputted from element (44) (referred to the limitation "a compressed GPS signal") (see col. 6, lines 24-44).

## Allowable Subject Matter

3. Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# Response to Arguments

4. Applicant's arguments filed on 7/5/06 have been fully considered but they are not, in part, persuasive.

The rejection, under 35 USC 112, to claims 1 and 2, has been withdrawn since the claims were amended and overcome the rejection.

Application/Control Number: 09/938,387 Page 4

Art Unit: 2611

Applicant's arguments with respect to claim 1, as being anticipated by Barnard, is not persuasive. The claim, after being amended, is deemed still being anticipated by Barnard, with reasons set forth above in this Office Action.

#### **Conclusion**

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**PRIMARY EXAMINEP** 

Phuong Phu **Primary Examiner** Art Unit 2611

Phung phu Phuong Phu 07/11/06